

19980124.ba v01_n888.bam.980124 v01_n889.bam.980124

>From ???@??? Sat Jan 24 14:33:57 1998
Message-Id: <199801240907.DAA18576@sco.theporch.com>
Date: Sat, 24 Jan 1998 03:07:22 CST
Subject: BOATANCHORS digest 1888

BOATANCHORS Digest 1888

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- 19) RE: voltage calibration

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by Sandy W5TVW <ebjr@worldnet.att.net>
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- 27) Resistor in 6H6 heater circuit. More.
by GIBSON@ASTRA.LBL.GOV
- 28) R-390/A tag needed and spring detent wanted
by Bill Wilson <billo@internettpport.net>
- 29) Re: Help Needed
by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
- 30) Re: Zero Bias Tubes
by Ho4bart <Ho4bart@aol.com>
- 31) Re: Screen AM, PC, W6AJF
by Ho4bart <Ho4bart@aol.com>
- 32) and re: screen grid mod.
by Ho4bart <Ho4bart@aol.com>

Date: Fri, 23 Jan 1998 22:07:52 -0800
From: Dave Prince <davprin@gil.com.au>
To: boatanchors@theporch.com
Subject: JERROLD Model 900C Sweep Generator
Message-ID: <34C98538.2BE0@gil.com.au>

G'day Gang,

Anyone have any knowledge of the subject unit. I got one in a trade. Appears all there except for a plug-in unit missing from the front panel. Is it worth restoring for use in aligning VHF/UHF ex-military radio gear. Anyone have a manual to copy?

cheers de

Dave Prince VK4KDP
davprin@gil.com.au

Date: Fri, 23 Jan 1998 07:49:44 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: MNHopkins <MNHopkins@aol.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Screen AM, PC, W6AJF
Message-ID: <Pine.SUN.3.96.980123070028.8679A-100000@indy2>

On Thu, 22 Jan 1998, MNHopkins wrote:

> ...no one ever looked at efficiency from the standpoint of dollars spent
> [...] but Frank Jones, W6AJF.
> [...] after the war [...] he moved to screen modulation, published
> several articles on it and finally banished plate modulation from his
> station. As always, he was the other voice.

In fact, Frank and the gang at "Radio" were working with various sorts of "efficiency" modulation *before* WW II, too! They published several articles on control-grid modulation (including a neat little "proof of concept" rig running a pair of 6L6s in the PA). In the 1935 "Radio Amateur Newcomer," there's a McMurdo Silver (Jones-designed) 50W exciter running a pair of RK-25s that's set up for suppressor-grid modulation (actually a pretty good way to go, allowing some 90% mod with decent fidelity and not as fussy as grid mod; genuine RF power pentodes are not common any more, though the ol' 802 still shows up and is close kin to the RK-25).

Most of the Jones/"Radio" Handbooks in the prewar era cover control-grid, screen-grid, screen+plate and suppressor-grid modulation in addition to plate modulation. At that time (per my '39 edition), pure screen modulation was not common, as there were few tubes well-suited to it--one trick used to get better modulation was to screen-modulate the PA and buffer both! One tube alone was good for up to 60% mod--I suspect some of the postwar tubes were able to do better than this, and there's tricks to make it look better, too.

...ARRL does look sort of stodgy in comparison but it's important to remember that plate modulation is easier to get working properly than the other types, especially if all you've got is 1930s ham test gear (a diode monitor and maybe a VOM). ARRL is not a pure-tech organization; then as now, they've got a political aspect and in that light, a lower level of frustration on the part of homebrewers and fewer maladjusted 'phone rigs on the air probably looked like a good deal. (Umm, read anything about what 160m 'phone was like back then, especially when propagation was good and/or around the bigger cities? Eeeek!) It should not be thought that they ignored the other ways; the '38 ARRL HB, for instance, describes suitable modulators and adjustment for control- and suppressor-grid modulation, as well as controlled-carrier schemes.

73,
--Bobbi

Date: Fri, 23 Jan 98 08:42:20 -0800
From: philip mccooy <dgnova@erols.com>
To: boatanchors@sco.theporch.com
Subject: BC-224a owners unit
Message-ID: <199801231344.IAA10252@smtp3.erols.com>

Re the earlier posting about the BC-224a, I also have one, in the process of restoration. I have the BC-224a manual, anyone wanting copies please e-mail me at dgnova@erols.com

I will work of copy costs at 5 cents a page plus mailing costs.

Philip McCoy dgnova@erols.com

Date: Fri, 23 Jan 1998 09:12:09 -0500
From: polepeeg@aa4rm.radio.org (BA x-actions hr)
To: boatanchors@theporch.com
Subject: Son of: Pohleece cah & the DC4
Message-ID: <199801231412.JAA08137@aa4rm>

Getting to sound like "Smokey & the Bandit"

Say what do those big dooknob Moto p-n-ps cost these days?

Ones I put in say '108' and a date (6637). Ones excised have another Moto house # and a 1973 date.

tk

puzzl'd

Date: Fri, 23 Jan 1998 09:40:14 EST
From: FRANKK6NL <FRANKK6NL@aol.com>

To: boatanchors@theporch.com (multiple recipients of list)
Subject: Re:Zero Bias Tubes
Message-ID: <58c3054d.34c8abd0@aol.com>

Have read the discussions on this subject with interest. As has been pointed out such tubes are designed to idle safely at no bias and with rated plate voltage. Tubes designed for such service are designed with high amplification factor (μ) which is a measure of the field of the plate at the cathode divided by the field of the grid at the cathode.

The μ of a tube is determined by grid dimensions, grid to cathode and plate to cathode spacings. To obtain high μ the grid must be close to the cathode, have high turns per inch and made of as a large diameter wire to make the grid a more effective shield of the plate field at the cathode.

As also been mentioned two grids make a very effective shield. In this case grid cathode spacing is of no particular importance. The first zero bias tube was of this type. That was the old type 46 used as a Class B amplifier in early BC receivers. With the two grids tied together it had a μ of about 50. With the second grid tied to the plate its μ was only 6.

The first single grid zero bias tube, when I think about it, was the old 75 audio amplifier. It had a μ of 100 and combined zero bias with very good AF gain as a resistance coupled amplifier. All of its descendants 6SQ7, 6AT6, etc continued that 100 μ .

The 811 is a single grid tube with a μ of 160 and idles with a plate voltage of 1500. The popular 3-300Z is safe up to 2500 volts plate also has a μ of 160. Its bigger brother the 3-1000A has μ of 200 and goes up to 3000 volts plate.

Purely mechanical considerations prevent going very much higher in μ . After all you have to leave space between the grid turns to let plate current through !!

I might add that their high μ does not add as much as one would think to the gain of zero biased linear amplifiers. You get good grid shielding only at the price of greater grid currents.

Frank K6NL

Date: Fri, 23 Jan 1998 09:34:47 -0500
From: RSOLOMON@systems.TEXTRON.COM
To: " " (052)boatanchors(a)sco.theporch.com"
<boatanchors@sco.theporch.com>
Subject: Heath HD-10 Schematic Needed

Message-ID: <00341000022494940000002L042*@MHS>

Anyone have a copy of the schematic for the Heath HD-10 Calibrator
I can get a copy of ?? Tnx, Dick, W1KSZ.
rsolomon@systems.textron.com

Date: Fri, 23 Jan 1998 08:59:14 -0600
From: Tom Smith <tsmith@hal-pc.org>
To: boatanchors@theporch.com
Subject: WTB: 304TL sockets
Message-ID: <34C8B041.9B59FBE5@hal-pc.org>

I need at least two 304-TL tube sockets for a modulator currently
cooking in the home brew oven. Anybody got some spares?

I would also like to locate the Johnson VFO that goes with the 6N2 unit.

I also have elected to sell the Radio Shack digital signal processor
DSP-40 (21-543). It's like new in the original box. \$30 shipped US.
See posts about the unit from a month or two back. Neat little unit, but
just no real need for it in my shack.

Thanks! Tom Smith N5AMA tsmith@hal-pc.org

Date: Fri, 23 Jan 1998 10:55:05 EST
From: W4UOC <W4UOC@aol.com>
To: boatanchors@theporch.com
Subject: FS Heathkit HR-10B, HG-10B, DX-60B
Message-ID: <d0a015b8.34c8bd5b@aol.com>

For sale Heathkit HR-10B receiver, DX-60B transmitter and HG-10B vfo.
All work, cases somewhat scratched, panels are fine. Original manuals on
HR-10B and DX-60B. Copy of HG-10B vfo.

I will sell only as a complete set.

\$200.00 plus shipping or best offer.

Tom Koch - W4UOC
8170 Habersham Waters Road
Dunwoody, GA 30350
(770) 730-8136

Date: Fri, 23 Jan 98 09:19:14 MST
From: wally@mindy.sys.sdl.usu.edu (Wally Gibbons)
To: boatanchors@theporch.com
Subject: Old Military Docs FS
Message-ID: <9801231619.AA17179@mindy.sys.sdl.usu.edu>

Greetings,

Cleaned and refiled some portions of the file cabinet and found a few things which I didn't know I had. I don't need them either, and thought they may be useful to someone on the list.

\$10 each, and I'll priority mail, first come, first served.

Operating Manual, Navy ABK series aircraft radio receiving equipment, including Navy abk, abk-1 thru abk-7 and army scr-595 series.

Technical Manual TM11-619, Radio Set SCR-619

Instruction book, Model OQ-3 Vacuum Tube Testing Equipment, Navy Department bureau of ships.

A calibration book for an LM-21 or BC-221, serial number 1526. If you have this unit and need the book, I'll mail it to you as a prize, freebie. I've never had one of these frequency meters, don't know where the book even came from. But I do feel guilty about having it,,,,,

These last two are \$5 bucks each, priority mailed.

Instruction manual, battery cell tester, US army spec 56-85-3. Just a two page gooklet.

And finally, an original collins blueprint schematic of a 32G-21 transmitter. Uses 616's, 83's, and a couple other tubes.

Wally Gibbons
wally@mindy.sys.sdl.usu.edu

Date: Fri, 23 Jan 1998 08:56:47 PST
From: Terry Burge <terrybu@netman.ENS.TEK.COM>
To: rparker@istar.ca
Cc: Old Tube Radios <boatanchors@theporch.com>, terrybu@netman.ENS.TEK.COM
Subject: Re: Oregon swap-meet?

Message-ID: <9801231656.AA16285@netman.ENS.TEK.COM>

Ralph and the rest of the gang,

Rickreal Hamfest (also called Salem Hamfest) will be happening Saturday, Feb 21 at the Polk County Fairgrounds in Rickreal. Doors open about 9AM and runs most of the day. Take hyway 22 west out of Salem to hyway 99W and head south, about a 15 mile drive out of Salem. Follow the antennas'. After turning south on 99W it is about 1 mile to the fairground on the left.

Terry
KI7M

Date: Fri, 23 Jan 1998 10:47:07 -0700 (MST)
From: Richard Loken <richardlo@devax.admin.athabascau.ca>
To: "Roberta J. Barmore" <rbarmore@indy.net>
Cc: Old Tube Radios <boatanchors@theporch.com>,
~richardlo@devax.admin.athabascau.ca
Subject: RE: voltage calibration
Message-ID:
<Pine.PMDF.3.95.980123103532.541198448C-1000000@devax.admin.athabascau.ca>

On Thu, 22 Jan 1998, Roberta J. Barmore wrote:

> For nearly all amateur applications, absolute values are not important;
> order-of-magnitude and good indication of small changes are sufficient. A
> "good" DVM, kept where it will not fly to the floor nor be exposed to
> adverse environmental conditions, is a fine comparision reference for most
> ham shacks. If you want a little better precision, zinc-carbon cells will

Roberta sums it up nicely as always. I don't own a digital meter and its not because I spurn all things recent, its because I almost never need one. You usually want yes/no, good/bad, peak/dip readings. On the rare occasion when I want more accuracy I take home one of the Fluke DMM's from work and those occasions are less than annual. I have never needed tracable calibration - on the job or fooling around at home. If I don't beleive the results, its not a calibration issue but a "does this thing work right?" issue and then you need to take a vote among all your innacurate test gear or ask yourself what is wrong with your method.

Do you think you need tracable accuracy to see if a 10% 4.7K resistor has drifted to 470k? I think my banged up surplus (marked unrepairable) Simpson 260 will handle that for me.

Richard Loken VE6BSV, Systems Programmer - VMS

Athabasca University
Athabasca, Alberta Canada
** richardlo@admin.athabascau.ca **

Date: Fri, 23 Jan 1998 09:49:34 -0800
From: "larry W6WUH" <rau@wco.com>
To: "Rhett T. George" <rtg@ee.duke.edu>
Cc: "boatanchors" <boatanchors@theporch.com>
Subject: Re: Dumb entry shunt motors
Message-ID: <199801231752.JAA28738@shell.wco.com>

Many such Contactors
get Bruised off.
or thier Armatures twisted behind thier backs
because thier post was from another Field
or they lost thier Bearings.

But not here on BA.

Date: Fri, 23 Jan 1998 09:55:18 -0800
From: "larry W6WUH" <rau@wco.com>
To: <lee1@digital.net>
Cc: "boatanchors" <boatanchors@theporch.com>
Subject: Re:12vdc supply solid state or tubes?
Message-ID: <199801231757.JAA01039@shell.wco.com>

you will have a hell of a hard time getting 12 volts at a couple of amps
out of any readily available tubes.

the only thing would be tungar tubes for battery chargers and they went out
in the 40's. are big inneficient rare and expensive.

just get some silicon diodes..and use some with 10 or 20 amp ratings at 50
or 100 PIV.. they will only cost a couple of bucks each max.. and will live
longer than we do. and fuse the output of the supply to what ever the
transformer will handle....then you will have no smoke problems.

Larry

Date: Fri, 23 Jan 1998 14:06:29 -0500 (EST)
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
To: boatanchors@theporch.com
Subject: SX-100 - NO, THIS IS NOT NORMAL!
Message-ID: <9801231406.aa23990@pcusa01.ecunet.org>

To: boatanchors@theporch.com

Not it's not normal for a Hall SX-100 (or -73, -96, -101, or -101A, they're all similar) to oscillate under any condition. Mine are totally stable.

Bypassing problem somewhere?

-John Sehring (written on Fri, Jan 23, 1998 at Custer, SD) UCC WB2EQG

Date: Fri, 23 Jan 98 14:15:16 -0800
From: philip mccoey <dgnova@erols.com>
To: boatanchors@sco.theporch.com
Subject: RAF valve
Message-ID: <199801231917.0AA16715@smtp1.erols.com>

Does anyone have the CV or VR number of the RAF valve
REF 10E/11098

Philip McCoy dgnova@erols.com

Date: Fri, 23 Jan 1998 15:46:53 -0600 (CST)
From: Mike <ac5p@ionet.net>
To: boatanchors@theporch.com
Subject: Wanted BC-453 or R-23ARC-5 rx
Message-ID: <199801232146.PAA12047@mail.ionet.net>

Greetings BA gang, I am looking for a working model BC-453 that has been converted w/PS to plug and play on 120vac. This for a friend on another list who is into LW-dx listening. Anybody have one of these old "Q-5ers" sitting on a shelf collecting dust that you would like to see put back in service?

tk's, Mike ac5p in NE OK

Date: Fri, 23 Jan 1998 16:49:48 -0600 (CST)
From: Avery Comarow <acomarow@USNEWS.COM>
To: boatanchors@theporch.com
Subject: 100kc crystals
Message-ID: <199801232249.QAA04137@sco.theporch.com>

I just discovered that my 75A-4, purchased not long ago, is missing its 100kc calibrator crystal. I'm also about to take delivery of another boatanchor that needs a 100kc crystal.

Anybody got two spares (the usual .094 pins, .5 spacing) they'd like to unload?

Also still looking for a parts unit Sprague T0-6 or meter from same to replace the one in mine that sticks at the low end.

Thanks, as usual.

I'm still nosing like a truffle pig through the interesting responses to my query about whether current flow causes brittleness in chassis wiring, and will try to summarize them for further comment here.

Avery W40GK

Date: Fri, 23 Jan 1998 16:09:24 -0800
From: Matt Jodziewicz <mattj@oraus.com>
To: "'boatanchors@theporch.com'" <boatanchors@theporch.com>
Subject: Drake 2A faceplate
Message-ID: <01BD2819.48D11F80@mattj.oraus.com>

I know this is a long shot, but I have a Drake 2A which is almost finished electrical and mechanical restoration but needs a faceplate to repair the nearly destroyed original. Does anybody have one just lying around that needs a good home?

Please reply private email so as not to burden the list.

73 de Matt

Date: Fri, 23 Jan 1998 19:27:32 -0500
From: Richard Post <post@ouvaxa.cats.ohiou.edu>

To: boatanchors@theporch.com
Subject: RE: voltage calibration
Message-ID: <v03007805b0eee144c740@[132.235.46.82]>

Richard Loken wrote:

>Roberta sums it up nicely as always. I don't own a digital meter and its not
>because I spurn all things recent, its because I almost never need one. You
>usually want yes/no, good/bad, peak/dip readings. On the rare occasion when I
>want more accuracy I take home one of the Fluke DMM's from work and those
>occasions are less than annual. I have never needed tracable calibration -

If you love analog meters, items to watch out for at Hamfests are precision analog meters. I have one made by General Electric that is certified as 0.25% accurate. It has only three scales and no switches, 3.0, 7.5, and 30 volts DC. The older wooden-case precision voltmeters also see hamfests occasionally. I have a couple that have been calibrated several times by a testing lab. If my cheaper digitals do not quite agree with these analog meters (at or near full-scale), I find out why.

Heathkit offered a digital voltmeter with LEDs that had a pre-calibrated zener diode included on the chassis for calibrating the meter.

While I seldom need extreme accuracy in a voltmeter, I repaired a couple of Zenith Transoceanics recently. I carefully watch the filament voltages on these radios, especially that of the expensive 1L6 tube.

Rich

visit the Museum of Radio and Technology website
<http://ouvaxa.cats.ohiou.edu/~post/MRT/>

personal Boatanchpor Pix website
<http://ouvaxa.cats.ohiou.edu/~post/PIX/BA.html>
mirror site
<http://www.qsl.net/kb8tad/>

Date: Sat, 24 Jan 1998 00:34:50 +0000
From: Sandy W5TVW <ebjr@worldnet.att.net>

To: rbarmore@INDY.NET, boatanchors@theporch.com
Subject: Re: Screen AM, PC, W6AJF
Message-ID: <19980124003444.AAB23342@LOCALNAME>

At 12:49 PM 1/23/98 +0000, you wrote:

> In fact, Frank and the gang at "Radio" were working with various sorts
> of "efficiency" modulation *before* WW II, too! They published several
> articles on control-grid modulation (including a neat little "proof of
> concept" rig running a pair of 6L6s in the PA). In the 1935 "Radio
> Amateur Newcomer," there's a McMurdo Silver (Jones-designed) 50W exciter
> running a pair of RK-25s that's set up for suppressor-grid modulation
> (actually a pretty good way to go, allowing some 90% mod with decent
> fidelity and not as fussy as grid mod; genuine RF power pentodes are not
> common any more, though the ol' 802 still shows up and is close kin to the
> RK-25).

>

"Screen" modulation made a comeback of sorts. Several small transmitters used it (Globe Trotter, Globe Scout) along with nearly all the Heathkit "economy" line (DX-35, DX-40, DX60). Another system was "Clamp tube" modulation, which was a variation of screen modulation techniques. Jones used a 'saturable reactor' system that was actually quite complex.

I have seen many Japanese shipboard transmitters that used suppressor modulation techniques. Seems like Kyoritsu-Dempa, Japan Radio Co. and Anritsu-Dempa all had some strange tubes made for that job. One looked like a modified 833A, although a pentode, one top cap being the anode and one being the suppressor grid. Tubes used for suppressor grid modulation have to have certain qualities for the 3rd grid for best results. The 837 (an 807 sized tube) and the 803 (an older taller pentode version of the 813) would be very suitable for experimentation along these lines.

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive

Metairie, LA., 70001

860 Hartley 'ECO' construction "on hold"**

*** Looking for a TRC-10 transceiver *****

*** Looking for an RAL receiver *****

Date: Fri, 23 Jan 1998 19:50:54 -0500
From: Richard Post <post@ouvaxa.cats.ohiou.edu>
To: boatanchors@theporch.com
Subject: Re: solid state or tubes?
Message-ID: <v03007806b0eee64bf5ad@[132.235.46.82]>

Leon (lee) Wiltsey wrote:

>Hi Gang am about to build a power supply for a 12 v
>mobile rig for base station use. Now I have heard
>solid state supplies while very easy to build
>tend to go up in smoke with any kind of overeload,
>while tube supplies will not. So what sort of
>rectifiers do I use diodes selenium rect or vacuum tubes?..
>
>I need just 12 volts at a only an amp or two as
> supply will be floating o a 12 v car batt.?

If all you are doing is floating a 12 volt car batt, a simple power supply will suffice. I built my first when a kid. Transformer putting out 8 or 10 volts or so AC, a (silicon) bridge rectifier, and a 12 volt 1 or 2 amp car bulb in series with the positive lead. If you have a somewhat higher voltage transformer, try half-wave and the same bulb scheme. The bulb acts as a fuse and/or current limiter. Little or no filtering is typically required because of the storage battery. If you don't plug it in, the lamp will act as a polarity indicator. If it lights brightly without the plug in the wall, you switched the positive and negative leads or have a shorted diode. When plugged in with the proper polarity, the bulb light will give a relative indication of charging activity. At least it glows in the dark! (a bit like a tungar bulb :-)

Put fuses in for safety in any case.

Rich

visit the Museum of Radio and Technology website
<http://ouvaxa.cats.ohiou.edu/~post/MRT/>

personal Boatanchpor Pix website
<http://ouvaxa.cats.ohiou.edu/~post/PIX/BA.html>

Date: Wed, 11 Feb 1998 20:05:39 -0600

From: "Canfield" <canfield@sccci.net>
To: <boatanchors@theporch.com>
Cc: <canfield@sccci.net>
Subject: Siltronix 1011C and Heathkit RX-1 Mohawk
Message-ID: <199801240104.UAA18347@gdi4.gdi.net>

Hello:

Needed: a manual for a Siltronix 1011C that I'm restoring or a Sams. Is there a difference between a 1011C and a 1011D ?

Also need a heathkit Mohawk receiver for 2 and 6 meter use with a Seneca. Needs to be in good working condition. At 66 pounds, to heavy for shipping??? I'm in Florida.

Thanks

Bill

send responses to: canfield@sccci.net

Date: Fri, 23 Jan 1998 19:16:43 CST
From: jackiv@juno.com (John M Iverson)
To: post@ouvaxa.cats.ohiou.edu
Cc: boatanchors@theporch.com
Subject: Re: voltage calibration
Message-ID: <19980123.191713.3286.2.jackiv@juno.com>

Another county heard from.. at many hamfests we see old lab type meters in all kids of cases, i have a westinghouse "dynamometer" type meter which was calibrated many years ago and said .25% accuracy. I took it to our freindly cal lab to compare with the Fluke standard that they use which is traceable to NIHST .. the old thing tracked up to 750 v dc and within the .24% ac. the relation to tubes in this case is that it is a true boatanchor. draws a lot of current, but a very good comparison meter. have fun jack
Jack Iverson K0EWU jackiv@juno.com

Date: Fri, 23 Jan 1998 20:54:52 -0500
From: polepeeg@aa4rm.radio.org (BA x-actions hr)
To: boatanchors@theporch.com
Subject: Pohleece cah & the DC4
Message-ID: <199801240154.UAA09393@aa4rm>

----well the 1st of the sequence missed the reflector. color
my face red----->

Dear Diary
Dear Debris Mariners @ the Boat Anchorage.

- - - Pohleece cah 60s Moto 2-way & a Drake DC4 - - - -

I had a pal's DC4 on the bench & aside here 4 a month 'cause for 12V 200A
in there was nothing out.

Big pnp doorknobs checked OK so lotsa other stuff investigated - to no
avail.

Changed pnp doorknobs with similar units taken fm Pohleece cah 60s Moto 2-way
and VOILA.

DC4 does normally & can again power a electric shaver in the family cah.

So what satanic possession caused the "checks-good, works-bad effect" in the
changed-out p-n-ps????

Signed,

Puzzled

... and a Drake DC4 powers the tube tube tube tube tube tube tube tube
TR3, TR4, TR6, etc. dealusses... as well some little 110V thing that
doesn't care re 600 hz AC - like a series-wound Norelco shaver or any TV.

Date: Fri, 23 Jan 1998 18:10:39 -0800
From: "Lloyd A. Scott, Jr." <wpul11130@concentric.net>
To: boatanchors@theporch.com
Subject: Help Needed
Message-ID: <34C94D9F.624E@concentric.net>

Greetings All: I just received a Rec-O-Cut lathe and TT which
I purchased off of e,bay. The unit arrived today and well packed
I might add. Does anyone know if the recorder (Disk) used any
type of special amplifier. If now will a Audio Console or Broadcast
Limiter drive the recording head?? Any thoughts will be greatly
appreciated.

73's

Lloyd Scott

Date: Fri, 23 Jan 1998 21:19:11 -0500 (EST)
From: Bill Strangfeld <bstrang@iac.net>
To: boatanchors@theporch.com
Subject: Collins filter ID?
Message-ID: <Pine.SUN.3.93.980123211705.257A-1000000@crystal.iac.net>

Anyone have specifics on these mechanical filters?

F 84 Z5 PN 526 9355 00

F 88 Z5 PN 526 9356 00

F 100 Z2 PN 526 9390 00

F 92 Z2 PN 526 9388 00

E 64 Z5 PN 526 9350 00

F 76 Z5 PN 526 9353 00

Thanks!
Bill Strangfeld
bstrang@iac.net

Date: Fri, 23 Jan 1998 18:22:15 -0800
From: GIBSON@ASTRA.LBL.GOV
To: boatanchors@theporch.com
Subject: Resistor in 6H6 heater circuit. More.
Message-ID: <980123182215.27e009b7@ASTRA.LBL.GOV>

In a recent post, I gave an explanation of how hum is induced in a 6H6 AM detector/automatic noise limiter circuit via a parasitic diode (PD) formed by the tungsten heater as a bright emitter and the surrounding cathode cylinder as a "plate", which is what I was taught in radio school 40 years ago.

I received several communications about that post which doubted a PD

as an explanation. They considered heater-cathode resistance leaks as a far more likely cause.

It seemed a challenge to make some tests to decide what was really going on, so a Hallicrafters S40B was chosen as a test bed and with the series heater resistor shorted out with a clip lead, I ran all my 6H6's through it. Of 20 tubes, 4 were hummers. These were checked in a Hickok 539C tube tester which has the useful feature of a megohm meter capable of reading to above 100 meg. None of the four had any heater-cathode leakage.

Next I disconnected the S40B 6H6 heater wiring and wired the two tube socket terminals to a 6.3 V filament transformer and grounded one side of the heater as per usual practice and the four tubes hummed as before. Next I disconnected the heater wire to ground and floated the heater at +18 volts to ground using a battery which would reverse bias the PD. The hum vanished.

Out of curiosity I reversed the battery polarity which would bias the PD into conduction and the hum vanished again! This floored me for quite a while until I realised that the PD was forward biased in an emission saturated mode and even though the filament to "plate" voltage was being modulated by the AC heater voltage variations, the emission current remained constant and so induced no hum.

From these test I consider the PD to be a real entity.

So the tube radio designers had a choice. To kill the PD by reducing the heater temperature with a series resistor, or to bias a dedicated 6.3VAC winding biased to about +20V as Eddystone/Marconi did, no doubt to avoid patent infringement problems with Hallicrafters series resistor method.

Of course a bad heater-cathode leak would cause hum but the above PD effect occurs more often with perfectly good tubes.

John Gibson.

Date: Fri, 23 Jan 1998 13:36:44 -0600
From: Bill Wilson <billo@internettpport.net>
To: "boatanchors@theporch.com" <boatanchors@theporch.com>
Subject: R-390/A tag needed and spring detent wanted
Message-ID: <34C8F14B.52ADEAA5@internettpport.net>

Greetings to the list,

I'm looking for a tag to go on a R-390. I need the "long" tag that goes on the older R-390 (non-A) and early Motorola R-390As. I'm looking for one in nice condition. I'm also looking for a "spring dentent" for the R-390A. This makes that "click" when you change the MC knob. Thanks for reading this.

Regards,

Bill
W4BIZ

Date: Sat, 24 Jan 1998 05:37:00 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: wpul1130 <wpul1130@concentric.net>
Cc: boatanchors <boatanchors@theporch.com>
Subject: Re: Help Needed
Message-ID: <199801240536.FAA01729@punt1.hw.ac.uk>

On 1998-01-24 wpul1130@concentric.net said:
wp>X-Mailer: Mozilla 3.0Gold (Win95; U)
wp>X-Listprocessor-Version: 8.1 -- ListProcessor(tm) by CREN
wp>Status:
wp>Greetings All: I just received a Rec-0-Cut lathe and TT which
wp>I purchased off of e,bay. The unit arrived today and well packed
wp>I might add. Does anyone know if the recorder (Disk) used any
wp>type of special amplifier. If now will a Audio Console or Broadcast
wp>Limiter drive the recording head?? Any thoughts will be greatly
wp>appreciated.
wp>73's
wp>Lloyd Scott

We had something similar in the '50s. Cutting head powered by a hi-fi audio power amp with 2 6V6s as output - probably 15 watts. Can't remember impedance. Same amp used for general hi-fi audio. It had a mA meter constantly monitoring Ia total; can't remember what use that was unless to confirm minimum distortion (it would have flickered nastily on imbalance?).

Bill
GM8APX, qthr=No 6, EH4 6JY==Cave felem==No Rectangulars=Ikke Hawkering

Silent enim leges sunt inter arma

Net-Tamer V 1.10 - Registered

Date: Sat, 24 Jan 1998 03:15:20 EST
From: Ho4bart <Ho4bart@aol.com>
To: boatanchors@theporch.com
Subject: Re: Zero Bias Tubes
Message-ID: <82b5dfa5.34c9a31a@aol.com>

In a message dated 98-01-23 09:41:22 EST,
FRANKK6NL@AOL.COM writes:

> Tubes designed for such service are designed with high
> amplification factor (u) which is a measure of the field of the
> plate at the cathode
> divided by the field of the grid at the cathode.

---it appears that from the above the field could be considered the
"shielding total effect" of the grid. since it's in the denominator of
the above equation, it seems that more grid field = lower u.
what am i missing?

> As as also been mentioned two grids make a very effective shield. In this
> case
> grid cathode spacing is of no particular importance.

---would you comment on the use of pentodes like 807 with both grids
tied together, but the screen grid has a resistor in series with it to grid 1,
this used in zero bias pushpull modulator circuit seen in 1960s projects?

and thank you for the interesting post!
hue miller

Date: Sat, 24 Jan 1998 03:31:43 EST
From: Ho4bart <Ho4bart@aol.com>
To: ebjr@worldnet.att.net, boatanchors@theporch.com
Subject: Re: Screen AM, PC, W6AJF
Message-ID: <ba936f15.34c9a6f1@aol.com>

In a message dated 98-01-23 19:44:31 EST,
ebjr@worldnet.att.net writes:

> The 837 (an 807 sized tube) and the 803 (an older taller
pentode version of the 813) would be very suitable
> for experimentation along these lines.

and in fact were used in just such applications:
837: USN TBX thru TBX-4, GF transmitters
803: USN GO, GP, TBW transmitters

hue miller

Date: Sat, 24 Jan 1998 04:04:47 EST
From: Ho4bart <Ho4bart@aol.com>
To: boatanchors@sco.theporch.com
Subject: and re: screen grid mod.
Message-ID: <24503110.34c9aeb1@aol.com>

maybe harder to set up --sometimes, or for optimum --
but beautiful in simplicity.
CQ had a one tube AM transmitter using a 6BH6 as a
quartz controlled oscillator, a carbon mic provides the
voltage for the supressor grid, and the thing runs about
1 watt at very reasonable plate voltage.
hue

End of BOATANCHORS Digest 1888

>From ???@??? Sun Jan 25 03:18:58 1998
Message-Id: <199801242251.QAA06582@sco.theporch.com>
Date: Sat, 24 Jan 1998 16:51:34 CST
Subject: BOATANCHORS digest 1889

BOATANCHORS Digest 1889

Topics covered in this issue include:

- 1) crystal grinding pastime
by Ho4bart <Ho4bart@aol.com>
- 2) Re: and re: screen grid mod.
by "Roberta J. Barmore" <rbarmore@indy.net>
- 3) Re: crystal grinding pastime
by "Steve" <ssykes@emirates.net.ae>
- 4) Re: crystal grinding pastime
by Jeffrey Herman <jeffreyh@hawaii.edu>
- 5) Survey: Articles on Crypto
by Richard Brisson <hagelin@magi.com>
- 6) Equipment for trade
by Dave Wood <W4EJ@coastalnet.com>
- 7) Re. Screen / supressor AM tubes
by "Thomas A. Adams" <103360.2133@compuserve.com>
- 8) BA Vinyl Equipment Covers?
by y4562@groupz.net (Larry Louie)
- 9) W2QHH - QRP History - Information Wanted
by Stanley Wilson <microres@crl.com>

- 10) Re: and re: screen grid mod.
by polepeeg@aa4rm.radio.org (BA x-actions hr)
- 11) 100kc crystal for 75A-4
by Avery Comarow <acomarow@USNEWS.COM>
- 12) Re: BA Vinyl Equipment Covers?
by Avery Comarow <acomarow@USNEWS.COM>
- 13) Re: [R-390] No Cal. Signal on 16MC
by provero@connix.com
- 14) Re: Survey: Articles on Crypto
by Bob Roehrig <broehrig@admin.aurora.edu>
- 15) Whatzit? WE 374A
by Spencer Petri <spetri@e-tex.com>
- 16) Collins THX Transmitter
by deanbers@ix.netcom.com
- 17) FS: Books and magazines (long)
by "Walt Novinger" <wnovinger@shaw.wave.ca>
- 18) Re: Zero Bias TX tubes
by Dexter Francis <cwest@xmission.com>
- 19) Re: 10E/11098
by Dexter Francis <cwest@xmission.com>
- 20) WTB Supreme Publication
by kb5woo@juno.com (George T Folse)
- 21) SX-73 For Sale or Trade
by w8xq@juno.com (JEFF D WILDER)
- 22) Re: BC-224a owners unit
by Ken Corwin <kenc2@pacbell.net>
- 23) Re:Zero Bias Tubes (2)
by FRANKK6NL <FRANKK6NL@aol.com>
- 24) selectobject
by lee1@digital.net
- 25) FS: ARRL Handbooks and Misc. Manuals
by Mark Hovda <hovda@fyiowa.infi.net>
- 26) Oldest BC-348 ?
by "Gregory S. Raven" <gsraven@cris.com>
- 27) Dynamotor Unit BD-AN-83
by "Gregory S. Raven" <gsraven@cris.com>

Date: Sat, 24 Jan 1998 04:20:23 EST
From: Ho4bart <Ho4bart@aol.com>
To: boatanchors@sco.theporch.com
Subject: crystal grinding pastime
Message-ID: <54434c91.34c9b259@aol.com>

it seems i have a hankering to grind some quartz, probably
inspired by my digging out of storage a heap o' FT-243s.

but what approx max % of freq. change could i expect to realize? like the numerous boatradio quartzes in the 3 mc/s range, could i get them to 80m ? how about some way to measure while grinding, like grinding on a stainless steel surface with some kind of metal holder or block, connected to an oscillator, or does the crystal have to be really clean to quiver enuff to sustain oscillation? is xtal grinding at all interesting, or a real drag? tnx, hue

Date: Sat, 24 Jan 1998 04:31:47 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Ho4bart <Ho4bart@aol.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: and re: screen grid mod.
Message-ID: <Pine.SUN.3.96.980124041156.15432B-100000@indy3>

Hi!

Here's a mild confusion I thought might crop up; Hue's generally got the dope on what's what but (probably 'cos I tossed every grid-wriggling scheme I could think of in my last natter) we've skipped a grid or something:

On Sat, 24 Jan 1998, Ho4bart wrote:

[I think he's commenting on my bit about screen mod difficulty]:
> maybe harder to set up --sometimes, or for optimum -- but beautiful in
> simplicity. CQ had a one tube AM transmitter [...] quartz controlled
> oscillator, a carbon mic provides the voltage for the supressor grid
> [...]

They named the first three grids, counting out from the cathode: G1 is the control grid, G2's the screen grid or (especially in a '22) shield grid, and G3's the suppressor grid; about that time, they started tossin' grids in like there was a sale on 'em, and the PR gang gave up and started numbering them. (And G1 got named second--before the '22, all it needed was the family name!) G1 is the main control of electron flow, G2 screens it from the plate, and G3 suppresses secondary emission, or something like that.

Screen grid mod is (classically) one of the harder ways, though not as fussy as control-grid mod; *suppressor* grid mod is fairly easy. It looks like the CQ circuit used suppressor-grid modulation. If I remember right, screen-grid modulation of an xtal osc is iffy--tends to make the xtal wander; OTOH suppressor grid's downstream (literally!) of the osc and the thing is a lot happier.

...All this talk about tubes & element names begs a question--is a heptode especially good for amplifying jazz & bebop? Can you nail a hexode up over the barn doors for good luck in Pennsylvania Dutch country? <grin> (And shouldn't a nonode have *no* elements inside?!) ...Back when I was an even skinnier high-schooler, hangin' out with the tough boys in Electronics class, we all called incandescent lamps "monodes." No wonder everybody looked at us funny!

73,
--Bobbi

Date: Sat, 24 Jan 1998 14:56:52 +0400
From: "Steve" <:ssykes@emirates.net.ae>
To: <Ho4bart@aol.com>, "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: crystal grinding pastime
Message-ID: <013301bd28b6\$c7020840\$0100a8c0@gateway>

I used to have fun at it. I have heard that you can use a plate on both sides of the crystal with the radio on one side and an antenna on the other. You are supposed to get an indication when on frequency. I haven't tried it that way yet. I just used a piece of glass with a watery mixture of grinding powder until I got to the correct frequency. Lots of error and few trials. But the crystals worked.

Steve
KD2OM

-----Original Message-----
From: Ho4bart <Ho4bart@aol.com>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Saturday, January 24, 1998 9:23 PM
Subject: crystal grinding pastime

>
>it seems i have a hankering to grind some quartz, probably
>inspired by my digging out of storage a heap o' FT-243s.
>but what approx max % of freq. change could i expect to
>realize? like the numerous boatradio quartzes in the 3
>mc/s range, could i get them to 80m ? how about some
>way to measure while grinding, like grinding on a stainless
>steel surface with some kind of metal holder or block,
>connected to an oscillator, or does the crystal have to be
>really clean to quiver enuff to sustain oscillation?

>is xtal grinding at all interesting, or a real drag?
>tnx, hue
>

Date: Sat, 24 Jan 1998 01:18:26 -1000
From: Jeffrey Herman <jeffreyh@hawaii.edu>
To: Steve <ssykes@emirates.net.ae>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: crystal grinding pastime
Message-ID: <Pine.GS0.3.95q.980124011429.2648B-100000@uhunix5>

On Sat, 24 Jan 1998, Steve wrote:
> You are supposed to get an indication when on frequency. I haven't tried it

As I recall, tune your rcvr to the freq'y you wish the xtal to eventually
be on. As you get the xtal closer to that freq'y, the noise level in the
rcvr increases.
Jeff KH2PZ

Date: Sat, 24 Jan 1998 06:23:32 -0500
From: Richard Brisson <hagelin@magi.com>
To: boatanchors@theporch.com
Cc: ralph.cameron@takeone.com (Ralph Cameron)
Subject: Survey: Articles on Crypto
Message-ID: <3.0.1.32.19980124062332.0072b820@magi.com>

Greetings to all -

In talking to Ralph Cameron (VE3BBM) this week, he mentions
that over the years there have been numerous articles published
on new/emerging cryptographic devices/technology or famous
people involved in cryptology. He had a fabulous example from
"Radio News" in the early 1920's which featured the very
first commercial Enigma by Scherbius.

As part of doing a small survey and taking advantage of the
wealth of knowledge amongst the readership of BoatAnchors,
I would like to ask anyone who recalls such articles to send
me an email. Preference going to publications which featured
vacuum tubes of course :-)

Many thanks,

Richard.

Email: hagelin@magi.com

Date: Sat, 24 Jan 1998 07:48:54 -0500 (EST)
From: Dave Wood <W4EJ@coastalnet.com>
To: boatanchors@sco.theporch.com
Subject: Equipment for trade
Message-ID: <199801241248.HAA24470@abaco.coastalnet.com>

Like many newbie collectors, I find I have over achieved in some areas so I am considering the following trades:

1. I have a Hammerlund HQ-110A VHF with both 6 and 2 meters I got from Nick England about a year ago. This radio is in nice physical shape. I assume its works ok and I will bench it for serious inquiries. Nick tells me this is a pretty rare 110 with the 2 meter converter installed. I have a copy of the manual.
2. I also have a Lil Lulu 6 meter transmitter in nice physical condition with manual. You don't see these very often either.
3. Really nice Gonset GPP-1 phone patch.

I collect all Heath especially the consumer stuff. Knight kit ham gear is also high on my list. No inquiry will be insulting! 73 and good hunting Dave

Date: Sat, 24 Jan 1998 08:09:14 -0500
From: "Thomas A. Adams" <103360.2133@compuserve.com>
To: "INTERNET:boatanchors@theporch.com" <boatanchors@theporch.com>
Subject: Re. Screen / supressor AM tubes
Message-ID: <199801240811_MC2-3078-3B0F@compuserve.com>

Greetings.

Correct, 803 and 837 were BOTH used as screen or suppressor grid modulated amp stages in military gear, circa WW Deuce. Among others. Which brings me to the point of this message.

Another toob that got used in this type of service is the 307, in the Army BC-654 transmitter / receiver.

I'm trying to get one of these beasts up and running, in it's original military configuration, as a "gee whiz" rig for setting up at hamfests in the area. That PA tube scares me. Anybody got any spare 307s lying around? I could use a pair for spares.

If not, I'd appreciate suggestions on another type the rig could be altered for (MINOR, reversable alterations, not a total redesign job!).

I thought an 807 could be made to play as an almost direct plug - in replacement, and it probably can, but in CW only; the BC-654 uses supressor modulation, but the 807 doesn't HAVE a supressor grid. The one the tube data books shows is (A) internally connected, and (B) not even a grid; it's a set of beam forming plates, and thus not suitable for modulation. Besides that, the BC-654 doesn't cover any CW bands as it stands; frequency coverage is 3800 - 5800 KHz.

It may be possible to convert from supressor grid to screen grid modulation, and get away with 807s.

837 would probably work, but it requires a socket change; a lot more modification than I want to deal with.

Beyond this hassle, there are a few other relatively minor doodads I need to complete the setup.

I am still looking for a PE-103 dynamotor.

I could use a case. The one I have has some metal fatigue splits at the corners. If a case from a scrapped rig can be had, it would be easier than having the existing case repaired (welded? brazed?) before repainting.

I'm fabricating some copies of the original field installation legs; no big problem there. The missing telegraph key (inside of the front cover) has been replaced with something more suitable, and almost correct; an Army J-36 bug! That sort of tempts me to pad this beast down to the 80 metre CW band, and, using computer graphics capability, construct a new tuning chart that will look like the original but cover the new frequency range.

73's,

Tom, W9LBB

Date: Sat, 24 Jan 1998 08:19:47 -0500
From: y4562@groupz.net (Larry Louie)
To: boatanchors@sco.theporch.com
Subject: BA Vinyl Equipment Covers?
Message-ID: <199801241335.HAA24583@sco.theporch.com>

Anyone know of a source which supplies custom vinyl covers to help keep the dust off Boatanchor equipment? Haven't seen any advertisements for many years in any of the ham or trade magazines. Does anyone know of a source?
Larry Louie

Date: Sat, 24 Jan 1998 05:34:19 -0800 (PST)
From: Stanley Wilson <microres@crl.com>
To: boatanchors@theporch.com
Subject: W2QHH - QRP History - Information Wanted
Message-ID: <Pine.SUN.3.91.980124052310.2308A-1000000@crl3.crl.com>

In the late 1940's and early 1950's there use to be a ham in VT or N.H. that operated low power (under 50 watts input) and worked the world on CW. He was written up about every month in CQ's DX listing. I think he finally got DXCC on 80 meters CW with about 17 watts input.

Howie W2QHH is not listed in QRZ data base so not sure what happen to him.

I believe he was written up in CQ one time because he was located in a city with a small lot with all kinds of power lines around his home. He used a lot of 6L6 and 807 type rigs and I remember seeing a photo of his shack one time with a old Millen 6L6-807 rig.

Anyway - I am looking for sources of information on him and his shack - what kind of receiver did he use, antenna, etc.. What happen to him, etc..

Does anyone have a CQ collection or CQ data base that could point me to articles about him. Does a CQ data base exist ?

I remember the era since that was when I was a kid working on getting a ham ticket. My hero's were KV4AA and W2QHH. hi

If I can locate enough info I would like to do an article about him and his rigs.

Thanks, de Stan AK0B
microres@crl.com

Date: Sat, 24 Jan 1998 09:09:19 -0500
From: polepeeg@aa4rm.radio.org (BA x-actions hr)
To: boatanchors@theporch.com, rbarmore@indy.net
Subject: Re: and re: screen grid mod.
Message-ID: <199801241409.JAA10692@aa4rm>

A Pentode substitutes nicely as a frog cage!

Date: Sat, 24 Jan 1998 08:24:49 -0600 (CST)
From: Avery Comarow <acomarow@USNEWS.COM>
To: boatanchors@theporch.com
Subject: 100kc crystal for 75A-4
Message-ID: <199801241424.IAA25809@sco.theporch.com>

Could someone with an A-4 tell me whether this receiver takes a nonstandard calibrator crystal? I dug up a crystal last night that seemed like most of the 100kc calibrator crystals I've seen--0.5" pin spacing, tall and skinny. But it just rattled around in the socket when I tried to plug it in, as if the pins are too small. Maybe the crystal was nonstandard? (I don't know where it came from.) What's going on?

Avery W40GK

Date: Sat, 24 Jan 1998 08:41:00 -0600 (CST)
From: Avery Comarow <acomarow@USNEWS.COM>
To: <y4562@groupz.net>
Cc: boatanchors@theporch.com
Subject: Re: BA Vinyl Equipment Covers?
Message-ID: <199801241441.IAA26223@sco.theporch.com>

At 08:37 AM 1/24/98 -0500, y4562@groupz.net wrote:
>Anyone know of a source which supplies custom vinyl covers to help keep the
>dust off Boatanchor equipment?

Larry, Nebraska Surplus has a whole page in their catalog of custom vinyl covers, most of them priced around \$9 (but some, like the one for the 75A-4, going for \$25!). And I've seen somebody posting ads for his covers on rec.radio.swap, all for \$10.

Avery W40GK

Date: Sat, 24 Jan 98 10:14:47 -0500
From: provero@connix.com
To: "Will Schendel" <n8azw@concentric.net>
Cc: boatanchors@theporch.com
Subject: Re: [R-390] No Cal. Signal on 16MC
Message-ID: <199801241517.KAA17988@comet.connix.com>

The calibration signal comes from a multivibrator circuit. There are two controls done during alignment that affect the frequency and harmonic content of the cal signal.

You can, by varying these controls, cause various harmonics to become stronger or to even disappear. Check the alignment procedures in the manual.

P.J. "Josh" Rovero home: provero@connix.com
Meteorologist radio: KK1D
Oceanographer work: rovero@sonalysts.com
Curmudgeon-at-Large web: http://www.connix.com/~provero/

Date: Sat, 24 Jan 1998 09:35:49 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Richard Brisson <hagelin@magi.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Survey: Articles on Crypto
Message-ID: <Pine.ULT.3.96.980124093435.24767D-100000@admin.aurora.edu>

On Sat, 24 Jan 1998, Richard Brisson wrote:

> people involved in cryptology. He had a fabulous example from
> "Radio News" in the early 1920's which featured the very
> first commercial Enigma by Scherbius.

I have a copy of Scherbius' original patent papers on the Enigma.

"Nostalgia is a thing of the past"
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Sat, 24 Jan 1998 09:48:19 -0600 (CST)
From: Spencer Petri <spetri@e-tex.com>
To: boatanchors@theporch.com
Subject: Whatzit? WE 374A
Message-ID: <199801241548.JAA27572@sco.theporch.com>

Hello,

Discovered this tube in the "pile". Anybody have the pertinent poop?

TIA,

73 de Pete WA5JCI EM21 "the future will be better tomorrow"

.....
6 Mtr -- WAS #490, WAC CW, DXCC/91 Countries, VUCC #361/626 Grids
.....
2 Mtr -- 36 States -- VUCC #346/183 Grids

Date: Sat, 24 Jan 1998 10:29:32 -0600 (CST)
From: deanbers@ix.netcom.com
To: boatanchors@theporch.com
Subject: Collins THX Transmitter
Message-ID: <199812482915741@>

Hello to all;

I am looking for information on a military transmitter called a THX.
For starters, it is definately a cousin to the Collins 30K series.
It is a 2 channel, AM rig with a single 4-125 and 75th modulators,
covering 1.6 to 5 MC. The contract number is Cca-27156.

If anyone knows where the THX may have been used I would like to hear
about it. I could use a schematic and manual but even a 30K-4
or 5 manual copy would be useful.

Thanks in advance;

Dean, K06IJ

Date: Sat, 24 Jan 1998 09:30:29 -0700
From: "Walt Novinger" <wnovinger@shaw.wave.ca>
To: "Boatanchors (Jack)" <boatanchors@theporch.com>
Subject: FS: Books and magazines (long)
Message-ID: <003301bd28e5\$621f9260\$bf144018@wbn-home.shaw.wave.ca>

Folks,

Time to clear some space on the bookshelves. All prices in US\$; shipping not included. Email or call 403.247.4397 with your interests.

"Old Timer's Bulletin" (Official Journal of the Antique Wireless Association, Inc.)
all in Good to Very Good Condition, \$2 ea. or ***\$150 for entire OTB package***

1976

June, Sept., Dec.

1977

Mar., June, Sept., Dec.

1978

Mar., June, Sept., Dec.

1979

Mar., June, Sept., Dec.

1980

Mar., June, Sept., Dec.

1981

Mar., June, Sept., Dec.

1982

Mar., June, Sept., Dec.

1983

Mar., Jun, Sept., Dec.

1984

Mar., June, Sept., Dec.

1985

Mar., June, Sept., Dec.

1986

Mar., June, Aug., Nov.

1987

Feb., May, Aug., Nov.

1988

May, Aug., Nov.

Index to AWA Publications: OTB, Vols. 18-29 and AWA Review, Vols. 1-111

1989

Feb., May, Aug., Nov.

1990

Feb., May, Aug., Oct

1991

Feb., May, Aug., Oct

1992

Feb., May, June, Aug., Nov.

1993

Feb., May, Aug., Nov.,

1994

Feb., May, Nov., Nov., Aug.,

1995

Feb., May, Aug., Nov.,

1996

Feb., May, Aug., Nov.

1997

Feb., May, Aug.

"Home Owner's Annual", Vol. 3, 1950 Very Good, \$3.

"The Radio Amateur's Handbook", ARRL

1944 Internal pages very good, spine present but frayed, ads present., \$30

1945 Internal pages very good, cover present but frayed at spine and top, spine rough and small portion top, and bottom missing, ads present. (This is a journal that apparently had two versions. Because of the war, ads weren't printed to save paper in first edition.) \$30

1968 Fair cover as scratched and very slight fraying upper left corner, internal pages good, ads present., \$8

Allied Radio Catalogs

1938 Good cover but some wear, very good internal, \$25

1941 Good cover but some wear, someone wrote name at top of catalog, very good internal, \$25

1941 Spring/Summer, Very good covers, but spine some wear, \$25

1942 Very good condition overall but some pages dog-eared at front section of catalog, \$25

1946 Very good covers, some wear at corner and spine, very good internal, \$25

1948 Very good covers, spine some wear, very good internal, \$25

1950 Very good covers, spine wear at top and bottom, very good internal, \$20

1951 Good covers but some wear, very good internal, \$20

1955 Covers fair, internal pages very good., \$15

1956 Cover fair, internal pages ok, \$15

1957 Front and back covers missing but internal pages very good, \$12

1958 Covers present but some wear, very good internal, \$15

1959 Good cover but slight tear at bottom, very good internal, \$15

1960, Front cover taped but ok condition, spine fair, back cover ok, some water damage but pages open and are readable but slightly buckled through page 65 others are fine, \$12

1961 Good cover, very good internal, \$15

1963 Good covers, some wear, very good internal, \$15

1966 Good cover, very good internal, \$15

Allied Radio Shack catalog,

1971, 50th Anniversary Edition, \$12

Lafayette Radio Electronics Catalog

1971, 50 Golden Jubilee Very Good, \$12

"Practical Radio Communication," Nilson and Hornung, First Edition, 1935.
Cover good but spine title area has been cut out with rest of spine intact.,
\$5

"Electric Radio" \$1 ea.
1990 June, July, Dec.
1991 Jan., Feb., Apr., May, June, Oct.
1992 Feb., Apr., Oct
1993 Apr., July, Aug., Sept., Oct., Nov., Dec.
1994 Jan - Oct, Dec.
1995 Jan-Dec
1996 Jan-Dec
1997 Jan-May, July-Dec.

=====

Walt Novinger	Real Radios Keep You Warm At Night!
Collector of hollowstate communications receivers and test equipment	
wnovinger@shaw.wave.ca	

Date: Sat, 24 Jan 1998 11:11:43 -0700
From: Dexter Francis <cwest@xmission.com>
To: boatanchors@theporch.com
Cc: FRANKK6NL@aol.com
Subject: Re: Zero Bias TX tubes
Message-ID: <34CA2ED9.3B37@xmission.com>

Don't forget the T-160-L/572B. 160 watts ICAS.
Heath used a pair in the HW-14 and SB-200.
(It's an 811A on steroids.)

-df

Need to Buy or Sell Tubes, Parts or BA Gear?
Visit our Web site at <http://www.xmission.com/~cwest/>
e-mail to: tubes@usa.net -or- cwest@xmission.com
P.O. Box 22443, Salt Lake City, Utah 84122

Date: Sat, 24 Jan 1998 11:21:15 -0700
From: Dexter Francis <cwest@xmission.com>
To: boatanchors@theporch.com
Cc: dgnova@erols.com
Subject: Re: 10E/11098

Message-ID: <34CA3115.7F28@xmission.com>

The 10E's I have are labelled VU-111 10E/146
U.S. Army/U.S. Navy. Made by Electronic Enterprises

My Babani Equivalent book doesn't show a RAF number for it.

-df

Need to Buy or Sell Tubes, Parts or BA Gear?
Visit our Web site at <http://www.xmission.com/~cwest/>
e-mail to: tubes@usa.net -or- cwest@xmission.com
P.O. Box 22443, Salt Lake City, Utah 84122

Date: Sat, 24 Jan 1998 13:25:24 EST
From: kb5ww@juno.com (George T Folse)
To: boatanchors@sco.theporch.com
Subject: WTB Supreme Publication
Message-ID: <19980124.122723.9606.2.kb5ww@juno.com>

All,

I am trying to complete my collection of Most Often Needed Radio
Diagrams by Supreme Publication. The years that I have are
1926-1938, 1939, 1940, 1941, 1942, 1946, 1948, and 1950. I need the others to
complete my collection. I am looking for originals not copies.
Thanks,

George Folse III KB5WWO kb5ww@juno.com
630 Dolhonde St.
Gretna, La. 70053
504-362-1896 ph/fax
Collector of Johnson, Heath, & Atwater Kent AMI#937

Date: Sat, 24 Jan 1998 13:32:17 EST
From: w8xq@juno.com (JEFF D WILDER)
To: boatanchors@theporch.com
Subject: SX-73 For Sale or Trade
Message-ID: <19980124.133611.10239.0.W8XQ@juno.com>

Hello People,
Still toying the idea of moving my SX-73 recvr. I'm open to Offers.
(CASH, Complete Drake stations, FT-890, TS-440, KWM-2A, etc...)
Thanks and 73

" Forever AM "
Jeff D Wilder (W8XQ)
Email : w8xq@juno.com
Phone: (616) 381-4133

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 24 Jan 1998 11:12:04 -0800
From: Ken Corwin <kenc2@pacbell.net>
To: Boatanchors at the Porch <boatanchors@theporch.com>
Subject: Re: BC-224a owners unit
Message-ID: <34CA3D04.20D7@pacbell.net>

Hello Everyone,

According to records kept in conjunction with the BA archive file bc-348.history, the BC-224-A "owners unit" is an exclusive one. Only three of the 650 BC-224-A's manufactured in 1936/37 have been reported here: One each by Bill Strangfeld, Philip McCoy, and Hue Miller.

Anyone else have one?

Hue Miller's observation about the BC-224-A's outward appearance ("ugly") reminded me of H. A. Robinson's comment in OTB, Vol. 27, No. 4: "The Signal Corps Laboratory at Fort Monmouth, New Jersey, observed ... the performance testing of the original BC-224-A prototype [which had been designed by RCA]. SCL then proceeded with their own [receiver design] sufficiently rugged for usage in armored vehicles, tanks, communication vans, etc." That design was to become the BC-312.

Ken Corwin, KF6NUR, Santa Clarita, CA (kenc2@pacbell.net)

Date: Sat, 24 Jan 1998 14:31:31 EST
From: FRANKK6NL <FRANKK6NL@aol.com>
To: boatanchors@theporch.com (multiple recipients of list)
Subject: Re:Zero Bias Tubes (2)
Message-ID: <da4d86b0.34ca4195@aol.com>

Hue Miller commented

> Tubes designed for such service are designed with high
> amplification factor (μ) which is a measure of the field of the
> plate at the cathode
> divided by the field of the grid at the cathode.

---it appears that from the above the field could be considered the
"shielding total effect" of the grid. since it's in the denominator of
the above equation, it seems that more grid field = lower μ .
what am i missing?

Hue you are so right. It is indeed the other way around. My fingers and my
thoughts sometimes get mixed up.

73, Frank

Date: Sat, 24 Jan 1998 15:56:45 -0500 (EST)
From: lee1@digital.net
To: BOATANCHORS@theporch.com
Subject: selectobject
Message-ID: <199801242056.PAA16835@ddi.digital.net>

Hi Gang

I might have mentioned that I was having much
difficulty getting the selectobject which is a tunable,
audio amp, to be used when copying cw working.

Well I finally found all my wiring errors and
today I fired it up and low and behold it worked.
It will give you at least 10 db gain on the freq
selected which works very good to help
separate cw sigs.

Now my question, the schematic calls for a
5 meg dual pot which serves as a tuning or
freq adjust control. This was hard to find in
fact I had to send away for it.

However the tuning control is very touchy
and actually the pot is not used as a pot but
as a reostat
that is one end is not connected. Measuring
the resistance at the point where it amplified
a nice 700-1000 cy note, I found I was only using
78k of the 5 megs. Do you think the author
meant .5meg which would seem much more likely.

This schematic is to be found in most
any rad am hdnbk from th 50's to the late 60's
I have replaced the 5 meg jobberdo with a dual
1meg and the freq adjust is much better.
Maybe some of you engineer types could look
over this schematic and let me know what you think. 73 73 73

Thank the good LORD for all that you have!!!

67yr old semi disabled senior trying to get code speed to 13wpm
(stroke got my eyesight, balance & coordination) SO ONLY BA'S NO SOLID STATE

Leon (lee) Wiltsey 4600 Lake Haven blvd Sebring fl. 33872 KF4RCL TECK+

Date: Sat, 24 Jan 1998 16:01:34 -0800
From: Mark Hovda <hovda@fyiowa.infi.net>
To: boatanchors@theporch.com
Subject: FS: ARRL Handbooks and Misc. Manuals
Message-ID: <34CA80DE.4B62@fyiowa.infi.net>

I have the following items for sale. First to reply gets them. All
prices INCLUDE postage to the US.

1. Surplus Radio Conversion Manual, by Evenson and Beach, good
condition, 115 pages, \$22.
2. Hammarlund HQ-145 manual, good condition, \$18
3. Winter 1957-58 Amateur Call Book. Good condition, cover has small
tears and creases, otherwise OK. \$8
4. TCM-2 and TCU-2 Transmitter Instruction Book, excellent condition,
\$10
5. Gonset Commander Model C multi-band transmitter instruction book, \$12
6. RCA ACR-136 Communication Receiver Sales Brochure, 4 pages, good
condition, \$10
7. Heathkit TC-1 Tube Checker Manual, fair condition, \$4
8. Thordarson Transmitter Guides, Nos. 344-A, 344-B and 344-E, from
1934,35 and 1940 respectively. Plus Thordarson's Servicemen's guide

from 1935. Very good condition, all four for \$25

9. NC-98 Instruction Manual, very good cond., \$12

10. 1954 ARRL Handbook, good condition, musty but no moisture damage, \$16

11. 1957 ARRL Handbook, good condition, minor moisture damage, otherwise in good condition. \$13.

12. 1961 ARRL Handbook, fair condition, cover worn and loose, otherwise OK. \$10

Date: Sat, 24 Jan 1998 17:41:56 -0500
From: "Gregory S. Raven" <gsraven@cris.com>
To: boatanchors@theporch.com
Subject: Oldest BC-348 ?
Message-ID: <2.2.32.19980124224156.00fd00f0@pop3.cris.com>

Good Morning Boatanchorites-

An interesting version of the BC-348 followed me home from a hamfest day, specifically a BC-348-C. I've never seen a C model before. I also own an O model, but the vast majority of BC-348s I have seen are Rs and Qs.

This C model is interesting in that the tag lists the order number as "ORDER NO. 1780-NY-41" implying that this unit was either ordered or built in 1941.

Anyone have BC-348 model A or B ? I wonder if this could be one of the oldest known BC-348s still floating around.

I want to use this receiver in the AWA OT CW contest. Multiplier points are given for using a transmitter and receiver built in 1941 or earlier. I need a companion military transmitter. Anyone have a command set that is verified to be built in 1941 or earlier they would like to sell or trade ?

73 de Greg Raven KF5N
Member Morse Telegraph Club TP Chapter
Visit "Telegraph Lore"
<http://www.cris.com/~Gsraven/index.shtml>

Date: Sat, 24 Jan 1998 17:46:04 -0500

From: "Gregory S. Raven" <gsraven@cris.com>
To: boatanchors@theporch.com
Subject: Dynamotor Unit BD-AN-83
Message-ID: <2.2.32.19980124224604.00fe3a44@pop3.cris.com>

Good Morning Boatanchorites-

Another boatanchor treasure was added to my collection today. A "Dynamotor Unit BD-AN-83". The tag says "SIGNAL CORPS U.S. ARMY". It is a medium size dynamotor with 375 volt output at 150 mA with an input of 14 V.

Anyone know what set this dynamotor/filter unit goes to ? Someone painted "191" on the side of the filter box. Possibly associated with the BC-191 transmitter ?

73 de Greg Raven KF5N
Member Morse Telegraph Club TP Chapter
Visit "Telegraph Lore"
<http://www.cris.com/~Gsraven/index.shtml>

End of BOATANCHORS Digest 1889
